ATTORNEY DOCKET NO.: 71205

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patentee : BLOTENBERG Patent No. : US 7,025,558 B2 Issued : April 11, 2006

For : PROCESS FOR THE RELIABLE OPERATION OF TURBOCOMPRESSORS

WITH SURGE LIMIT CONTROL AND SURGE LIMIT CONTROL VALVE

Dated : September 28, 2006

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450 ATTN.: Mail Stop DAC

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 CFR § 1.322

Patentee respectfully requests that a Certificate of Correction under 37 CFR §1.322 be issued for the above identified patent properly identifying the Assignee as MAN TURBO AG. The Letters Patent received by Patentee's representatives listed the Assignee as Man Turbo AG. This is incorrect

A Request for Certificate of Correction Under 37 CFR § 1.322 requested a Corrected Certificate of Correction showing the Assignee as MAN TURBO AG. When the Certificate of Correction Issued, the Assignee was shown as MANTURBO AG.

For verification, Patentee submits a copy of the Issue Fee Payment Form clearly showing the Assignee as MAN TURBO AG.

For your convenience, Patentee encloses a copy of the Letters Patent cover page with the correction indicated and a Certificate of Correction.

Applicant also encloses a copy of the Certificate of Correction issued on September 17, 2006.

Based upon this evidence, Patentee respectfully requests that a Certificate of Correction be issued for the above identified patent properly identifying the Assignee as MAN TURBO AG, at no cost to the Patentee as this was due to U.S. Patent Office error.

Favorable action is respectfully requested.

Respectfully submitted for Patentee(s),

By:

John James McGlew

Registration No. 31,903

For: McGLEW AND TUTTLE, P.C.

JJM: 71205.6

DATED:

Enclosures: Copy of Incorrect Letters Patent cover page

Certificate of Correction

Certificate of Correction issued on September 19, 2006

Issue Fee Payment Form September 28, 2006

SCARBOROUGH STATION

SCARBOROUGH, NEW YORK 10510-0827

(914) 941-5600

NOTE: IF THERE IS ANY FEE DUE AT THIS TIME, PLEASE CHARGE IT TO OUR DEPOSIT ACCOUNT NO. 13-0410 AND ADVISE.

(65)

(30

(56)

(12) United States Patent

Blotenberg

(10) Patent No.: (45) Date of Patent:

US 7,025,558 B2 Apr. 11, 2006

(54) PROCESS FOR THE RELIABLE OPERATION OF TURBOCOMPRESSORS WITH SURGE LIMIT CONTROL AND SURGE LIMIT CONTROL VALVE

5,960,624 A 10/1999 Blotenberg 6.164.901 A 12/2000 Blotenberg 6,193,470 BI 2/2001 Aurbeck 2001/0022938 A1 9/2001 Blotenberg 2002/0062679 A1 5/2002 Petrosov

> DE DE

> DE

DE

limit.

(75) Inventor: Wilfried Blotenberg, Dinslaken (DE)

T PATENT DOCUMENTS

OKE	GIN	PALE	NI DOC
35 4	10 08	7 A1	5/1987
35.4	14 82	2 A1	6/1987
38 0	9 88	C2	5/1990
689 I	6 55:	5 T2	10/1994

(73) Assignee: Man Turbo AG, Oberhausen (DE) (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 67 days. (21) Appl. No.: 10/763,103

(Continued)

A process for the reliable operation of turbocompressors with a surge limit control and a surge limit control valve is described, in which the compressor delivers gases with

different compositions and the composition of the gas (mo-

for the determination of the delivery head Δh and the volume flow V and plotting them in the form of a predetermined surge limit line (FIG. 2, FIG. 4), wherein the set point and the actual value are determined for the surge limit control from the graph, and the compressor is operated with the set points and actual values determined for the surge limit

Jan. 22, 2004 (22) Filed:

Prior Publication Data

Primary Examiner-Edward K. Look Assistant Examiner-Igor Kershtevn (74) Attorney, Agent, or Firm-McGlew & Tuttle, P.C.

US 2004/0151576 AT Aug. 5, 2004 (57)ABSTRACT

0)	For	eign A	pplication Priority	Data	
Jan.	31, 2003	(DE)		103 04 06	3
I)	Int. Cl.				
2)	F04D 27/02		(2006.01)	415/1: 415/1	7

(5

415/17, 30, 36, 159, 160, 163 See application file for complete search history.

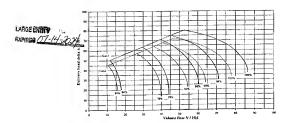
lecular weight) affects the performance characteristic of the turbocompressor and hence the position of the surge limit in the performance characteristic. The different compositions of the gases are compensated here with the effect on the position of the surge limit and consequently on the position of the surge limit control line by using predetermined design values for the gas constant R, the isentropic exponent k and the compressibility number z within the surge limit control

References Cited

U.S. PATENT DOCUMENTS

4,148,191	Α	*	4/1979	Frutschi 60/65
4,810,163	Α		3/1989	Blotenberg
4,825,380	Α		4/1989	
4,831,535	Α	٠	5/1989	Blotenberg 415/
4,946,343	Α		8/1990	Blotenberg
4.949.276	Α		8/1990	Staroselsky et al.
5.195.875	Α		3/1993	Gaston
5.290.142	Λ		3/1994	Ispas et al.
5,743,715	Α	*	4/1998	Staroselsky et al 415/
5,765,991	Α		6/1998	Blotenberg
5 908 462	Α		6/1999	Batson

control with a minimally necessary distance from the surge 4 Claims, 7 Drawing Sheets



Approved for use through 04/30/2007. OMB 0651-0033
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. (Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

CENTIFICATE OF CORRECTION
Page of
PATENT NO. : US 7,025,558
APPLICATION NO.: 10/763,103
ISSUE DATE : April 11, 2006
INVENTOR(S) : Wilfried Blotenberg
It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:
The Letters Patent that issued incorrectly listed the name of the Assignee as Man Turbo AG.
The correct name of the Assignee as shown on the Issue Fee Form showed the name as MAN TURBO AG.
The Certificate of Correction received from the U.S. Patent Office showed the Assignee as MANTURBO AG.
The correct name to be listed for the Assignee on the Letters Patent is MAN TURBO AG.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

McGlew and Tuttle, PC

PO Box 9227 - Scarborough Station

Scarbrough, New York 10510-9227

This collection of information is required by 37 CFR 1,322, 1,323, and 1,324. The information is required to obtain or retain a benefit by the public which is to file (sed by the USPTO to process) an application. Consideratingly is governed by 35 U.S.C, 122 and 37 CFR 1,14. This collection is estimated to take to 1 how complete, including againsting, preparing, and submitting the completed application from the tell SPTO. Time will way depending upon the individual case. Any complete, including a complete process of the complete application from the tell SPTO. Time will way depending upon the individual case. Any complete, including the complete application from the tell SPTO. Time will way depending upon the individual case. Any complete process of the complete application from the CPTO. The will way of the complete application from the CPTO. The will way of the CPTO. The will way of the CPTO. The way of the CPTO. The way of the CPTO. The will way of the CPTO. The CPTO. The CPTO. The Way of the CPTO. FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

TB-FEE(S) TRANSMITTAL

omplete and send this form, together with applicable fee(s), to: Mail

09/08/2005

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571) 273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and motification of maintenance fees will be mailed to the current correspondence address and included unless correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address

000023872

75gn

MCGLEW & TUTTLE, PC

P.O. BOX 9227

APPLICATION NO.

SCARBOROUGH STATION

SCARBOROUGH, NY 10510-9227

Note: A certificate of mailing can only be used for domestic mailings of the Fec(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Express Main Moning V43529538503

Lerrulicate of Manning by "Transmission" —
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Fostal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop 18SUE FEE Addressed to the Mail Stop 18SUE FEE Addressed to the USPTO (371) 273-2885, on the date indicated below.

Toni	Ann Fonte	(Depositor's name)
	tru Toute	(Signature)
Decen	mber 7, 2005	(Date)
R	ATTORNEY DOCKET NO.	CONFIRMATION NO

FILING DATE FIRST NAMED INVENTO ATTORNEY DOCKET NO. 10/763,103 CONFIRMATION NO. 01/22/2004 Wilfried Blotenberg 71205 TITLE OF INVENTION: PROCESS FOR THE RELIABLE OPERATION OF TURBOCOMPRESSORS WITH SURGE LIMIT CONTROL AND SURGE LIMIT

APPLN TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE nonnrovisional NO \$1400 \$300 \$1700 12/08/2005 EXAMINED ART UNIT CLASS-SUBCLASS KERSHTEYN, IGOR 3745 415-001000 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list the names of up to 3 registered patent attorneys or agents OR, alternatively, Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. McGlew & Tuttle, P.C (2) the name of a single firm (having as a member a "Fee Address" indication (or "Fee Address" Indication form registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

listed, no name will be printed 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignce is identified below, no assignce data will appear on the patent. If an assignce is identified below, the document has been filled for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filling an assignment.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

MAN TURBO AG

Oberhausen, Germany

Please check the appropriate assignee category or categories (will not be printed on the patent): 4b. Payment of Fee(s): S Issue Fee A check in the amount of the fee(s) is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached.

Advance Order - # of Copies ___ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _______(enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above)

a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

□ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent, or the assignee or other party in

mitterest as shown by the records of the United States Patent and Trademant Office.

Authorized Signature Typed or printed name

Date December 7, 2005

MCG Lew

Registration No. 31,903

This collection of information is required by 37 (FR L 31). The information is required to obtain or retain a benefit by the public which is to fife fand by the USPTO to process) assimising the completed application form to the USPTO. That 37 (FR L 14 This collection is estimated to take 12 minutes to complete, including gathering from the USPTO. That 37 (FR L 14 This collection is estimated to take 12 minutes to complete, minutes to complete the USPTO. That 37 (FR L 14 This collection is estimated to take 12 minutes to complete minutes to the amount of the complete the USPTO. That 37 (FR L 14 This collection is estimated to take 12 minutes to complete minutes the process of the USPTO. The USPTO is the second of the USPTO. The USPTO is Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 7,025,558 B2 APPLICATION NO. : 10/763103

DATED : April 11, 2006 INVENTOR(S) : Wilfried Blotenberg Page 1 of 1

It is certified that error appears in the above-identified patent and that sald Letters Patent is hereby corrected as shown below:

On The Title Page:

Item (73) Assignee "Man Turbo AG" should read -- MANTURBO AG --



Signed and Sealed this

Nineteenth Day of September, 2006



JON W. DUDAS Director of the United States Patent and Trademark Office